

Antelope to Barracuda File Format

During your upgrades or on the [Server Environment Checks](#) page, you might see a message like this:

`unsupported_db_table_row_format` if this test fails, it indicates a potential problem.

Your database has tables using Antelope as the file format. You are recommended to convert the tables to the Barracuda file format. See the documentation Administration via command line for details of a tool for converting InnoDB tables to Barracuda.

This message is advising you should move to the better [InnoDB Barracuda](#) format on MySQL and MariaDB.

From the MySQL documentation:

- **Antelope** is the original InnoDB file format, which previously did not have a name. It supports COMPACT and REDUNDANT row formats for InnoDB tables and is the default file format in MySQL 5.6 to ensure maximum compatibility with earlier MySQL versions that do not support the Barracuda file format.
- **Barracuda** is the newest file format. It supports all InnoDB row formats including the newer COMPRESSED and DYNAMIC row formats. The features associated with COMPRESSED and DYNAMIC row formats include compressed tables, efficient storage of off-page columns, and index key prefixes up to 3072 bytes (`innodb_large_prefix`).

To perform the table upgrades, you use the Moodle CLI and run the following commands (prefix with `sudo` if required):

Script for detection of row size problems in MySQL InnoDB tables.

By default InnoDB storage table is using legacy Antelope file format which has major restriction on database row size. Use this script to detect and fix database tables with potential data overflow problems.

Options:

<code>-i, --info</code>	Show database information	
<code>-l, --list</code>	List problematic tables	<code>-f, --fix</code> Attempt to fix all tables

(requires SUPER privilege)

```
-s, --showsql      Print SQL statements for fixing of tables-h, --help      Print out
this help
```

First check for problematic tables:

```
php admin/cli/mysql_compressed_rows.php -l
```

The `-l` parameter lists tables that need compacting/compressing e.g.

mdl_data	Compact	(needs fixing)	mdl_data_fields
Compact	(needs fixing)	mdl_enrol_paypal	Compact (needs fixing)
mdl_lti	Compact	(needs fixing)	mdl_user
Compact	(needs fixing)		
mdl_user_info_field	Compact	(needs fixing)	

To fix, run the command with the `-f` fix paramter.

NOTE: this can be database intensive so avoid running during high load periods or when there are a lot of active users on the site. Ideally you should do this during an outage in [maintenance mode](#).

```
php admin/cli/mysql_compressed_rows.php -f
mdl_data          ... Compressedmdl_data_fields          ... Compressed
mdl_enrol_paypal   ... Compressedmdl_lti          ... Compressed
mdl_user          ... Compressed
mdl_user_info_field ... Compressed
```

To confirm all is well, run the list command again or check the environments page. There is also a handy `-i` parameter to check your database platform details:

```
php admin/cli/mysql_compressed_rows.php -i
Database version:  5.7.23-log
Database name:     moodle
Database engine:   InnoDB
innodb_file_per_table: ON
innodb_file_format: Barracuda
```

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